Casiotone CT-430

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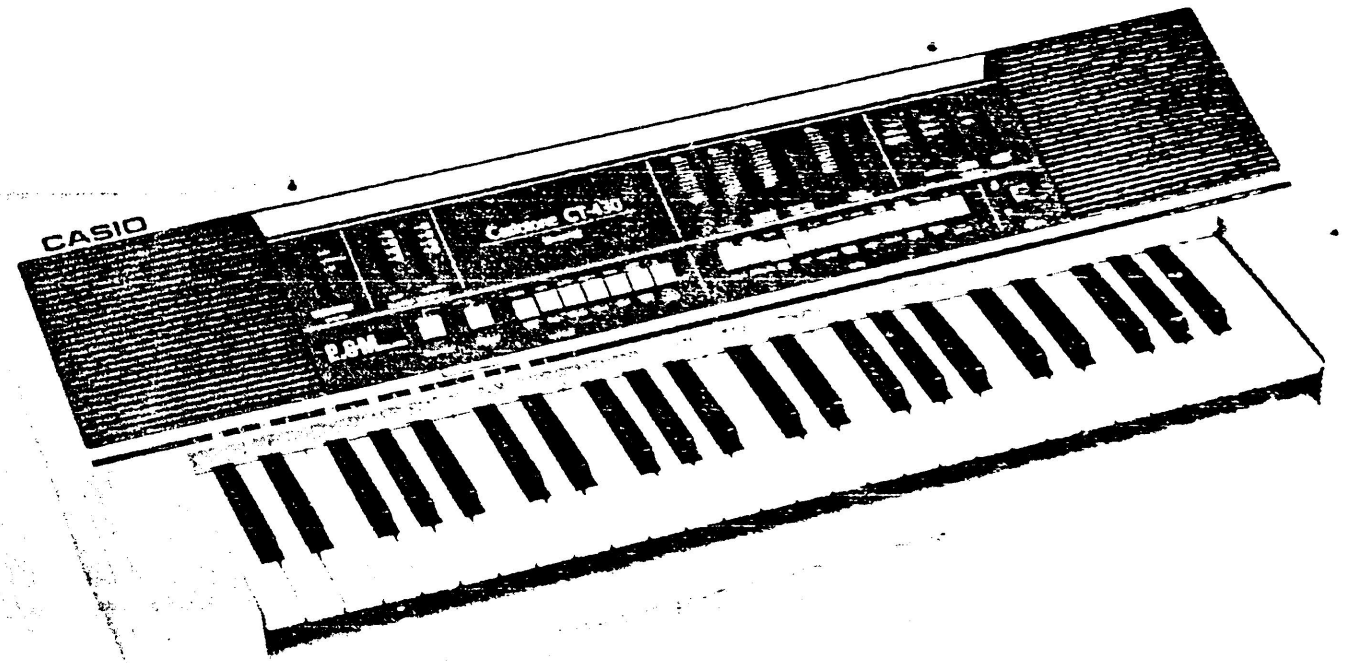
Manual de Operación..... 17



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CASIO

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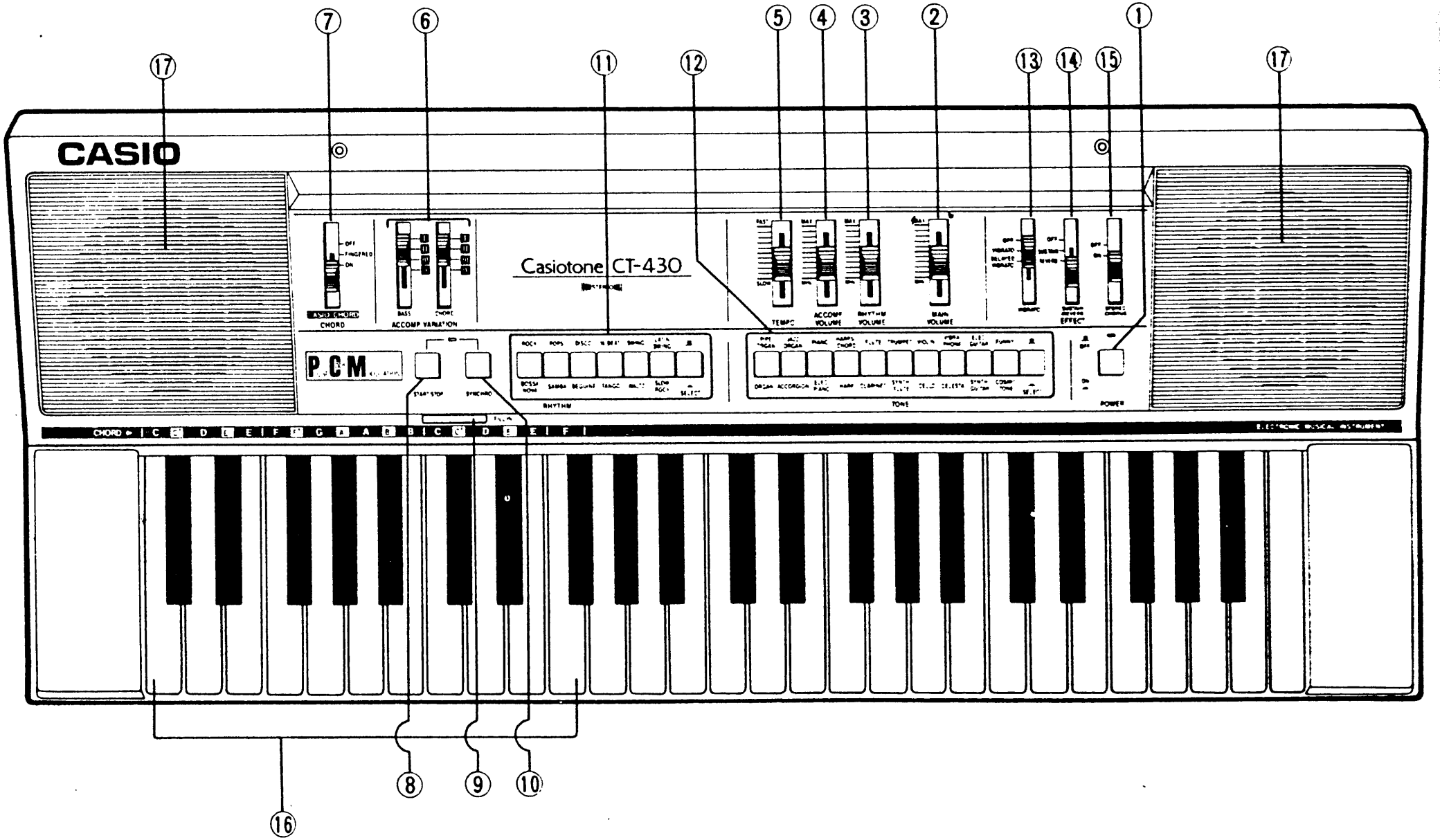
1 Nomenclature and function



① Power switch
Used to turn the instrument on and off.

② Main volume control
Used to control the overall volume of melody, rhythm, chord and bass.

③ Rhythm volume control
Used to control the volume of rhythm sound only.

④ Accompaniment volume control
Used to control the volume of chord and bass only.

⑤ Tempo control
Used to control the tempo of auto-rhythm, auto-accompaniment.

⑥ Bass & Chord selector
Used to select a suitable bass & chord pattern.

⑦ Casio Chord switch
Used to turn the auto-accompaniment on and off.

⑧ Start/Stop button
Used to start and stop rhythm sound.

⑨ Fill-in button
Used to insert a fill-in (rhythm grace).

⑩ Synchro button
Used to start rhythm, chord and bass simultaneously when played with accompaniment keyboard (⑯).

⑪ Rhythm selectors
Used to select one of 12 rhythm patterns.

⑫ Preset sound selectors
Used to select one of 20 preset sounds.

⑬ Vibrato switch
Used to turn vibrato or delayed vibrato effect on and off.

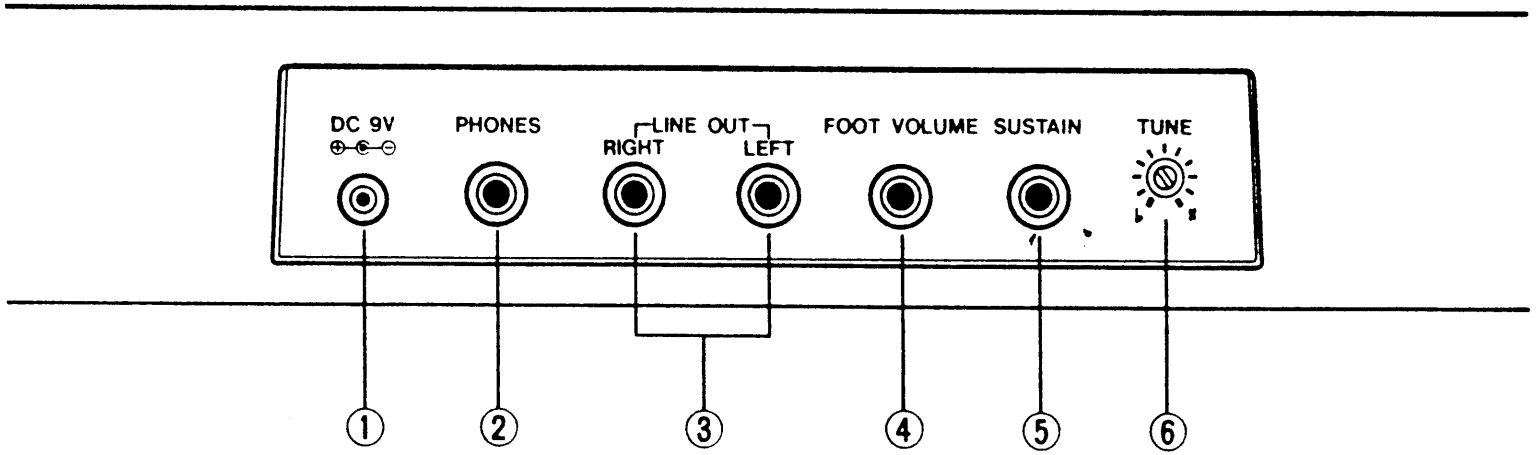
⑭ Sustain/Reverb. switch
Used to turn sustain or reverberation effect on and off.

⑮ Stereo Chorus switch
Used to turn stereo chorus effect on and off.

⑯ Accompaniment keyboard
Becomes keyboard for playing chords when Casio Chord switch (⑦) is set to 'FINGERED' or 'ON'.

⑰ Built-in stereo speakers

Rear panel



①AC adaptor jack
For connection of AC adaptor (AD-5) or car battery adaptor, (CA-5).

②Headphone jack
For connection of headphone for private enjoyment.

③Ouput jacks
For connection to audio equipment or an amp speaker for enhanced reproduction. Volume can be adjusted by main volume control.

④Foot volume jack
For connection of a foot volume control pedal (VP-2). Free volume change can be made by foot.

⑤Sustain jack
For connection of a sustain pedal (SP-1) for sustain effect.

⑥Tuning control
For adjusting the pitch of the entire keyboard within 1/4 tone and easy tuning with other instruments.

2 Power supply

Both AC and DC power supplies are available.

DC power

• Dry batteries

This unit works on six size D (SUM-1) manganese dry batteries. Weakened batteries will result in lower volume or poor tonal quality. The power indicator lamp will gradually lose its brightness when the battery power weakens. At this time change batteries or shift to the power sources mentioned below.

• Battery replacement

1. Slide open battery compartment cover on the bottom of unit and remove used batteries.
2. Insert new batteries taking care that polarity is correct.

* Replace all six batteries to ensure longer battery life.
* See specifications for battery capacity.

• Car battery

With a car battery adaptor (CA-5, optional), the unit can be powered with DC power from a car battery through a cigarette lighter socket.

AC power

To connect the unit to an AC outlet, an AC adaptor (AD-5, optional) is required. Use only an adaptor with the same voltage rating (100, 117, 220 or 240V) as power supply specified for your area to prevent component damage.

* Remove batteries when the unit is not used for extended periods.
  (Battery leakage can damage electrical parts.)

• Auto power-off function

An automatic power cut-off function cûts off power approximately 6 minutes after the last key operation. Power supply can be resumed by switching the power switch off and then on again.

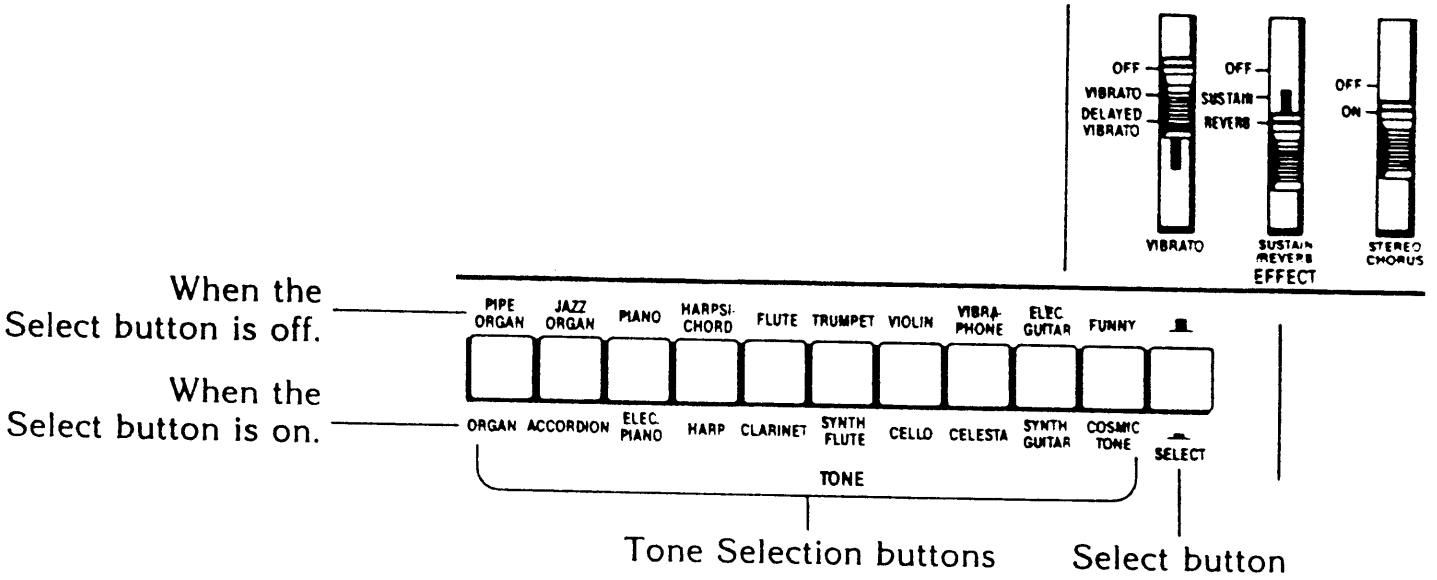
• Caution

* Only use the CASIO AC adaptor specified for this unit.
* Under normal use, the AC adaptor will become warm. Disconnect the adaptor whenever possible, especially if not used for extended periods.

• Misuse may cause batteries to burst.

1. Use of an AC adaptor other than a Casio adaptor.
2. Inserting batteries with their polarities reversed.

3 Preset sounds & Sound effects



- **Selecting a preset instrumental sound**

  Select one of 20 instrumental sounds by pressing the corresponding button. Each button has 2 instruments according to whether the Select button is depressed or released.

- **Adding sound effects**

  Vibrato, delayed vibrato, sustain, reverberation and stereo chorus can be added by sliding each switch to the corresponding position.

VIBRATO ..... For slight, rapid variation in pitch.

DELAYED VIBRATO ..... For vibrato effect that is delayed for a slight interval after pressing key.

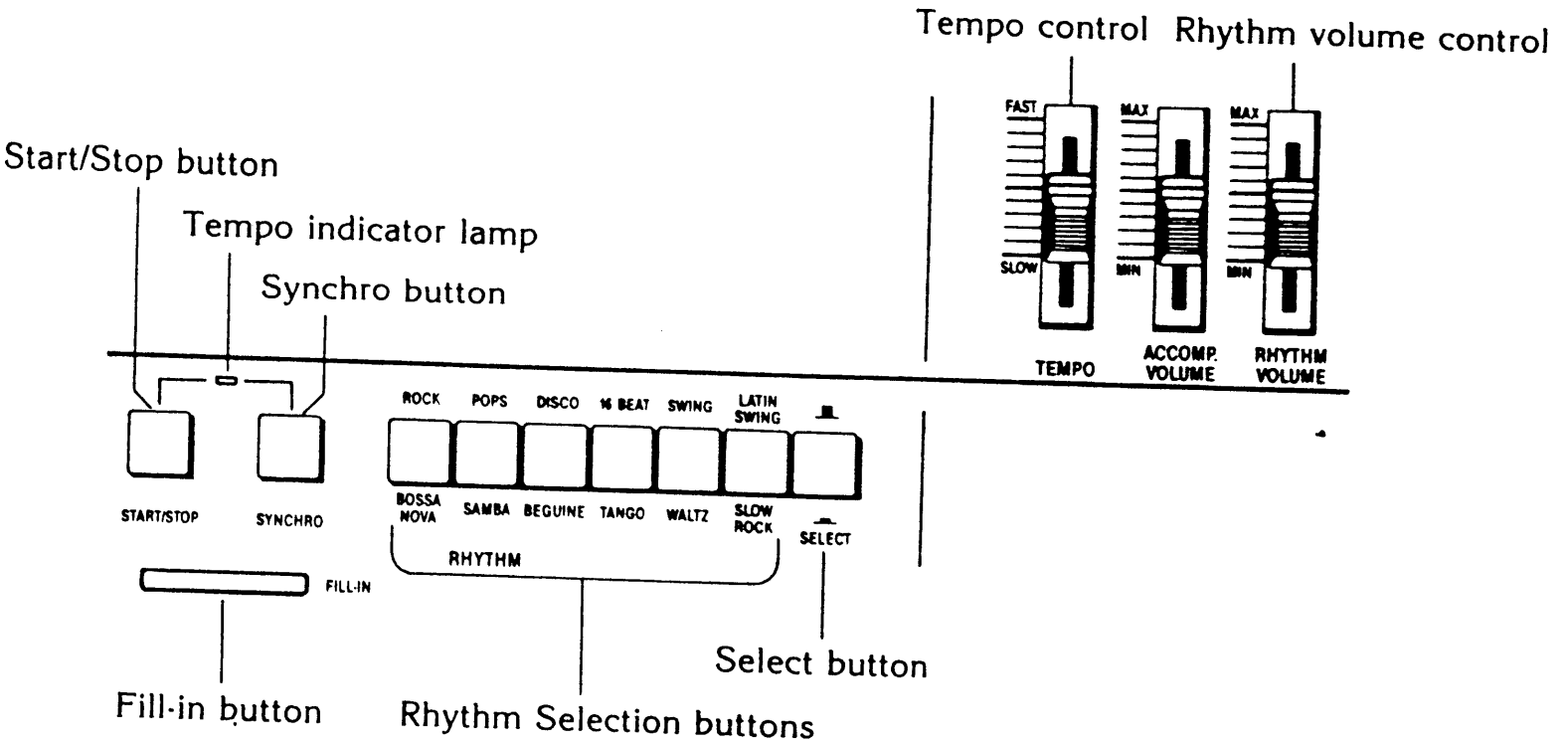
SUSTAIN ..... For sound that lingers after a key is released.

REVERB. ..... For concert hall ambience.

STEREO CHORUS ..... For a sound that swells between the two speakers.

4 Auto-rhythm

The latest in electronic keyboard technology provides your CT-430 with a variety of useful, exciting rhythm effects.
* A PCM sound generator produces: Bass drum, Snare drum, High conga, Low conga, Rim shot and Hand clap.



- **Selecting an auto-rhythm**

  Select one of 12 auto-rhythms by pressing a rhythm selector. Each button has 2 rhythm patterns according to whether the Select button is depressed or released.

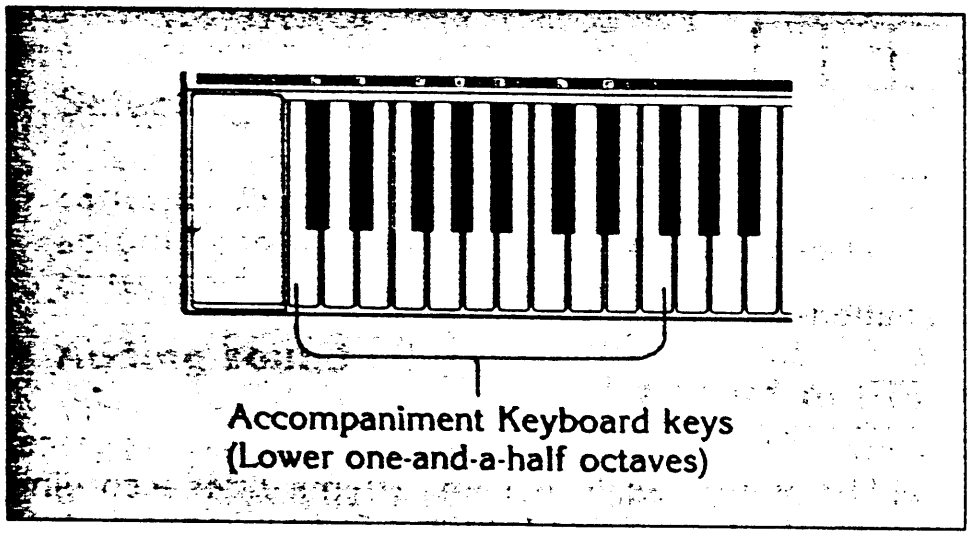
- **Fill-in button**

  If pressed during rhythm play, fill-in (percussive grace) will be performed. The fill-in patterns differ according to the rhythm selected.

• Synchronizing auto-rhythm and auto-accompaniment

— Using the Synchro button —

To synchronize auto-rhythm and auto-accompaniment, first select an auto-rhythm and then press the Synchro button. A red lamp will light above the Synchro button to indicate that the instrument is ready to play. When one of the accompaniment keyboard keys (see illustration below), is pressed the rhythm, synchronized with auto-accompaniment, will begin to play. (For auto-accompaniment, see next page.)



• Tempo lamp

Blinks on first beat of each measure. When the Synchro button is pressed, this lamp stays lit to indicate that the instrument is ready to play.

• Start/Stop button

Press to start or stop rhythm.

• Rhythm volume control

Adjust the volume of auto-rhythm.

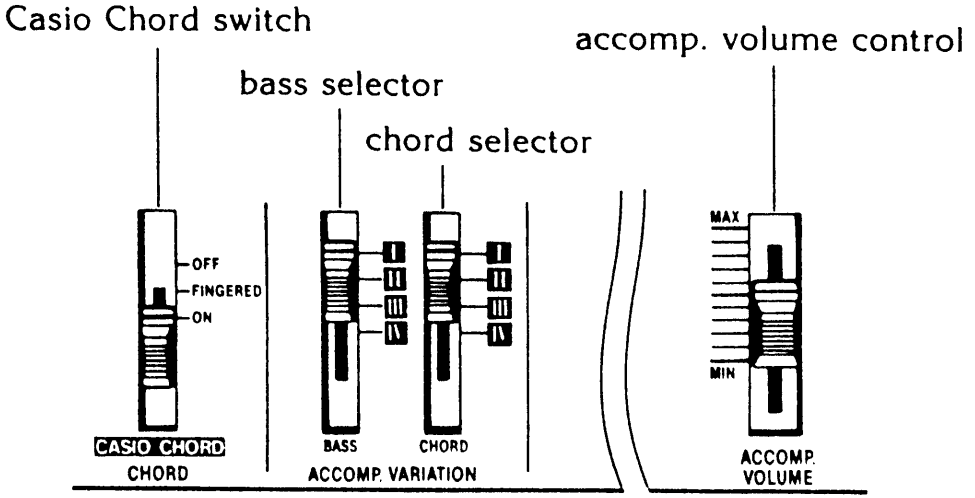
* If main volume control is at minimum setting, no rhythm sound can be heard.

• Tempo control

Adjusts the tempo of auto-rhythm and auto-accompaniment.

5 Auto-accompaniment

The auto-accompaniment function of the CT-430 offers two ways of playing chords. One is the normal way in which you play three or four notes at the same time, and the other is the easier "One-finger method" which is available using the Casio Chord system.



[Accompaniment Variation selectors]

- **Casio Chord switch**

  Turns auto-accompaniment on and off.

  OFF ..... For normal play without auto-accompaniment.

  FINGERED ... For auto-accompaniment using pressing chords as usual.

  ON ..... For auto-accompaniment using the Casio Chord system.

  * If the Casio Chord switch is set to "FINGERED" or "ON", the lower one-and-a-half octaves of the keyboard become accompaniment keyboard keys, and the upper part of the keyboard becomes 4-note polyphonic.

- **Accompaniment Variation selectors**

  Four kinds (I to IV) of bass and chord patterns can be selected for each rhythm. Set each selector to any position according to your choice of accompaniment style.

  * These selectors do not function if auto-accompaniment is not used, (i.e., if the Casio Chord switch is set to "OFF").

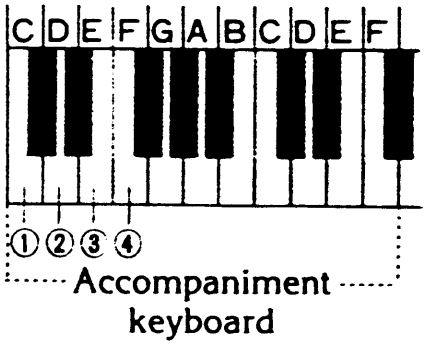
* The instrumental sounds of bass and chords vary according to which one of the 12 auto-rhythms and which type of Accompaniment Variation is selected.
* Set the two selectors to position I for a typical accompaniment style corresponding to each rhythm.

- **Accomp. Volume Control**
  Adjusts the volume of chord and bass only.

[1] Auto-accompaniment using the Casio Chord System (One-finger Method)

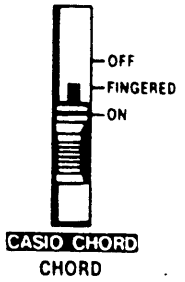
Casio Chord System

The Casio Chord system has been developed so you can play the four main types of chords more easily. Playing chords is simplified as shown below:
Pressing one of the accompaniment keyboard keys produces a major chord corresponding to that note. Simultaneously pressing any key to the right (two keys at the same time) results in a minor chord. Similarly, pressing one more key to the right (three keys in all) produces a seventh chord, and pressing the fourth key to the right (four keys in all) creates a minor seventh chord.

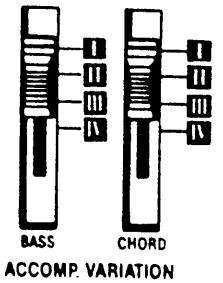


(Example)
C (C major chord) — Press ①.
Cm (C minor chord) — Press ①, ② together.
C_{m7} (C seventh chord) — Press ①, ②, ③ together.
C_{m7} (C minor seventh chord) — Press ①, ②, ③, ④ together.
* Not only ②, ③ and ④, but any black or white keys can be used as long as they are to the right of ①.

①Set the Casio Chord switch to "ON".



②Set the bass and chord selectors to suitable positions.



③Select one of the auto-rhythms and press the Synchro button.

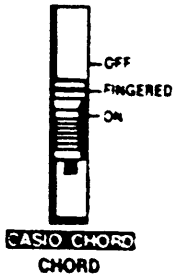
* The lamp above the Synchro button lights, meaning that the accompaniment keyboard keys are ready for play.

④Play on the accompaniment keyboard keys according to the Casio Chord system.

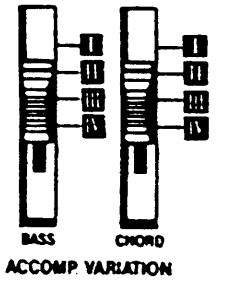
* Adjust the tempo, bass volume, chord volume and rhythm volume using the respective controls.

[2] Auto-accompaniment by playing chords as usual.

①Set the Casio Chord switch to "FINGERED".



②Set the bass and chord selectors suitable positions.



③Select one of the auto-rhythms and press the Synchro button.

* The lamp above the Synchro button lights, meaning that the accompaniment keyboard keys are ready for play.

④Play a chord on the accompaniment keyboard keys.

* Adjust the tempo, bass volume, chord volume and rhythm volume using the respective controls.

6 Care of your unit

1. Avoid heat, humidity or direct sunlight.

Do not overexpose the unit to direct sunlight or place near a heater or in any extremely hot place.

2. Take care not to drop the unit and avoid severe impact.

Severe impact may cause malfunctions. When carrying or transporting the unit, protect the keyboard and switches by packing with soft cloth.

3. Keep free of liquids, dust, etc.

Do not allow dust, dirt or foreign objects to get between the keys, especially metallic objects such as hairpins, sewing needles or coins. Also, do not let the unit get wet.

4. Never attempt modifications.

This musical instrument is made up of precision electronic components. Any modification or unauthorized maintenance may cause malfunction.

5. Do not apply lacquer, thinner or volatile liquids.

Clean the keyboard with a soft cloth dampened with detergent. (Soak the cloth in a detergent and squeeze until almost dry.)

7 Troubleshooting

* For any malfunction, always check battery condition first (see page 6).

Trouble	Possible cause	Remedy
No sound, even if keys are pressed.	1. Main volume turned down. 2. Headphones connected.	1. Turn up main volume. 2. Disconnect headphones.
No rhythm	Rhythm volume turned down.	Turn up rhythm volume.
No accompaniment	Accomp. volume turned down.	Turn up accomp. volume.
Occasional interference	Refrigerators, washing machines and similar electric appliances.	Use an outlet as far away as possible from the appliance thought to be the cause.
No sound when connected to external amplifier.	1. Main volume on the CT-430 turned down. 2. Defective connection cord.	1. Turn up main volume. 2. Replace connection cord.

8 Specifications

Model:	Casiotone CT-430
Number of keys:	49 keys (8-note polyphonic)
Instrumental sounds:	20; Pipe organ, flute, trumpet, violin, jazz organ, piano, harpsichord, vibraphone, elec. guitar, funny, organ, clarinet, synth. flute, cello, accordion, elec. piano, harp, celesta, synth. guitar, cosmic tone
Sound effects:	Vibrato, delayed vibrato, sustain, reverberation, stereo chorus.
Auto-rhythms:	12; Rock, pops, disco, 16-beat swing, latin swing, bossa nova, samba, beguine, tango, waltz, slow rock
Rhythm source:	Pulse-Code-Modulation
Auto-accompaniment function:	Casio Chord switch (OFF/FINGERED/ON) Accompaniment pattern selectors (bass & chord)
Pitch control:	± 1/4 tone
Speakers:	12 cm dia. x 2 (Amp output = 2W + 2W)
Output jacks:	Output impedance = 2 KΩ Output voltage = 1V (RMS) max.
Power source:	3-way power supply • AC 100, 117, 220 or 240V (±10V) using AD-5 optional adaptor. • Six size D dry cell batteries (battery life = approx. 10 hours) • Car battery using CA-5 car battery adaptor

Power consumption:	9.2W
Dimensions:	141(H) x 818(W) x 340(D) mm (5½"(H) x 32³/₁₆"(W) x 13³/₈"(D))
Weight:	6.3 kg (13.9 lbs.)

* *Design and specifications are subject to change without notice.*

GUIDELINES LAID DOWN BY FCC RULES FOR USE OF THE UNIT IN THE U.S.A. (not applicable to other areas).

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

..... reorient the receiving antenna
..... relocate the equipment with respect to the receiver
..... move the equipment away from the receiver
..... plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the US Government Printing Office, Washington, D.C., 20402, Stock No. 004-000-00345-4.